PhyNexus provides life science researchers automation solutions for high throughput sample processing in drug discovery and screening using our PhyTip® columns with our propriety Dual Flow Chromatography technology. We are a worldwide leader in providing solutions for automated protein purification, nucleic acid purification, and sample prep, supporting many high throughput applications. PhyTip columns are used by top tier pharmaceutical companies for drug target discovery and validation, drug screening and lead optimization, drug development, clinical trials, and drug manufacturing.

We specialize in automated high-throughput protein and plasmid purification

Any sample volume
Any column size
High Purity
Scalable
Reproducible

PhyNexus PhyTip® columns used with our Dual Flow Chromatography provide complete antibody binding for highly concentrated sample recovery from small samples and can be used in all major 8, 12 or 96-channel liquid handling robotic systems.

ROBOTICS AUTOMATION

PhyTip columns can be used with all major 8, 12, and 96-channel automation liquid handling robots including Agilent Technologies, Beckman Coulter, Dynamic Devices, Hamilton, Perkin Elmer, and Tecan.
PhyNexus offers over 2000 PhyTip® columns for automated high throughput purification of proteins and nucleic acids. Protein products include columns to purify antibodies, antibody fragments, tagged recombinant proteins, and peptides. Nucleic acids products include columns to purify transient transfection quality plasmids, PCR products, and genomic DNA.

<table>
<thead>
<tr>
<th>Resins</th>
<th>Resin Volumes</th>
<th>Tip Volumes</th>
<th>Instruments</th>
</tr>
</thead>
<tbody>
<tr>
<td>5K and 10K desalting resin</td>
<td>Normal Phase 1</td>
<td>5 µL</td>
<td>AutoPlasmid MMG</td>
</tr>
<tr>
<td>C18 90Å and 300Å</td>
<td>Plasmid Purification</td>
<td>10 µL</td>
<td></td>
</tr>
<tr>
<td>C4 300Å</td>
<td>ProPlus (MabSelect SuRe™)</td>
<td>12 µL</td>
<td></td>
</tr>
<tr>
<td>CaptureSelect® IgG-Fc Hu</td>
<td>ProPlus LX (MabSelect SuRe LX™)</td>
<td>20 µL</td>
<td></td>
</tr>
<tr>
<td>CaptureSelect® IgG-Fc ms</td>
<td>Protein A</td>
<td>40 µL</td>
<td></td>
</tr>
<tr>
<td>CaptureSelect® KappaXL</td>
<td>Protein G</td>
<td>80 µL</td>
<td></td>
</tr>
<tr>
<td>CaptureSelect® LC-kappa Hu</td>
<td>Streptavidin</td>
<td>160 µL</td>
<td></td>
</tr>
<tr>
<td>CaptureSelect® LC-lambda Hu</td>
<td>Strong Anion</td>
<td>320 µL</td>
<td></td>
</tr>
<tr>
<td>POROS CaptureSelect® IgM</td>
<td>Strong Cation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Genomic Purification</td>
<td>Weak Anion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glutathione</td>
<td>Weak Cation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMAC</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PhyNexus can custom pack almost any resin into a PhyTip column for all major liquid handling robots.

**APPLICATIONS**

PhyNexus can automate your application through our partnerships with all major robotics companies. We can provide the best high-throughput automation solution for your application, provide method and protocol development, support, installation, and training.

**Protein Purification**
- Protein and antibody engineering
- Lead optimization / Screening
- Expression optimization / Screening
- Affinity pull down
- Immunoprecipitation / Co-immunoprecipitation
- Chromatin immunoprecipitation
- Target discovery
- DNA encoded library screening
- Pharmacokinetic / Pharmacodynamic modeling
- Immunogenicity
- Quality control
- Library screening (fabs, scFvs, small molecules)
- X-ray crystallography, membrane proteins
- Epitope mapping
- Mass spectrometry sample prep

**Nucleic Acid Purification**
- Nucleic acid extraction
- Plasmid DNA purification
- Automated mouse tail genomic DNA

**Method Development**
- Multi-parallel formulation screening
- Protein analytics & characterization
- Process development / Continuous chromatography
- Glycan profiling
- Ion exchange chromatography
- Desalting and buffer exchange

**OUR CUSTOMERS**

Our customers are companies and research groups that touch people’s lives.

PhyNexus, Inc.
3670 Charter Park Dr. Suite A
San Jose, CA 95136 USA

PhyNEXUS and PHYTIP are registered trademarks of PhyNexus, Inc.

©2018, PhyNexus, Inc., All Rights Reserved.